Serial No.: 09/682,502

Confirmation No.: 7905

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Atty. Ref.: 06730.0010.NPUS00

21. (New) The invention as recited in claim 14, wherein all of said plurality of pixel sensor strips in said detector are arranged at a single, substantially uniform level with respect to said silicon detector wafer without overlap with other pixel sensor strips.

22. (New) The invention as recited in claim 22, wherein said applied bias voltage ranges between approximately 10V and 1000V.

11/11/04